Sudhir Yarram

Email: sudhirya@buffalo.edu
Webpage: http://skrya.github.io

RESEARCH INTERESTS

My research focuses on designing video perception and forecasting models for autonomous systems that will enable autonomous systems to *perceive* and *forecast* in the real world just as humans are able, and ultimately surpass humans ability to forecast.

EDUCATION

University at Buffalo, USA
Doctor of Philosophy, Computer Science and Engineering   Aug 2019 - present
Advisor: Prof. Junsong Yuan
Thesis Committee: Prof. Junsong Yuan, Prof. Chunming Qiao, Prof. Vishnu Lokhande

International Institute of Information Technology, Hyderabad India
Bachelor of Technology, Computer Science and Engineering,   Jul 2011 - Jul 2015
GPA: 8.08/10 (Overall)

SELECTED WORK EXPERIENCE

Amazon Go Team
Research Intern, with Dr. Tian Lan, Dr. Hui Liang, and David Acuna   Summer 2021
Referring Video Object Segmentation   Seattle, WA, USA

Amazon Go Team
Applied Scientist Intern, with Dr. Tian Lan and Dr. Hui Liang   Summer 2020
Domain Adaptation for Referring Video Object Segmentation   Seattle, WA, USA

Adobe Systems
Member of Technical Staff , with Vikas Jain   2016 - 2018
Owner of the Predictive Creativity app, an animation app that simplifies the repetitive process using machine learning algorithms.   Bangalore, India

PUBLICATIONS

Sudhir Yarram, Junsong Yuan, "Future Forecasting (anonymized title)", in *European Conference on Computer Vision* (**ECCV**), 2024. (**In submission**)

Sudhir Yarram, Ming Yang, Junsong Yuan, "Adversarial Structured Prediction for Domain Adaptive Semantic Segmentation", in *Machine Vision and Applications* (**MVA**), 2022. [pdf]

Jialian Wu, **Sudhir Yarram**, Hui Liang, Tian Lan, Junsong Yuan, Jayan Eledath, and Gerard Medioni, "Efficient Video Instance Segmentation via Tracklet Query and Proposal", in *IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2022. [pdf]

Sudhir Yarram, Jialian Wu, Pan Ji, Yi Xu, Junsong Yuan, "Deformable VisTR : Spatio temporal deformable attention for video instance segmentation", in *IEEE International Conference on Acoustics, Speech and Signal Processing* (**ICASSP**), 2022. [pdf]

Sudhir Yarram, Ming Yang, Junsong Yuan, Chunming Qiao, "Joint Global-Local alignment for domain adaptive semantic segmentation", in *IEEE International Conference on Acoustics, Speech and Signal Processing* (**ICASSP**), 2022. [pdf]

Ashutosh Mishra*, **Sudhir Yarram***, Tarun Kalluri*, Manmohan Chadraker, C.V.Jawahar, "Semantic Segmentation Datasets for Resource Constrained Training", in *IEEE National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics* (**NCVPRIPG**),

2019. [pdf]

Sudhir Yarram, Girish Varma, C.V. Jawahar "City-scale Road Audit using Deep Learning", in *IEEE/RSJ International Conference on Intelligent Robots and Systems* (**IROS**), 2018. [pdf]
Finalist for IROS JTCF Novel Technology paper award (certificate)

AWARDS & HONORS	IROS JTCF Novel Technology paper award Runner-up, **IROS**, 2018.

Nominee for Young Achievers Award, **Adobe Systems**, 2016.
Secured 534th rank in All India Engineering Examination (AIEEE) 2011 (>150k applicants)

PROFESSIONAL SERVICES

Conference Reviewing

Computer Vision and Pattern Recognition Conference	2020 - 2023
International conference on computer vision	2021, 2023
European Conference on Computer Vision	2022, 2024

Journal Reviewing

IEEE Transactions on Pattern Analysis and Machine Intelligence	2023

SKILLS

Python, C, C++, PyTorch